

RECEIVED

Serial Number:

09/423,545B

ENTERED

CRF Processing Date:

4/20/2001

Edited by:

Verified by:

MAY 6 9 2001

(STIC staff)

TECH CENTER: 1600/2900

P# 10

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line
- ☐ Edited a format error in the Current Application Data section, specifically: _____
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: _____
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: _____
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: _____
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: _____
- ☐ Deleted extra, invalid, headings used by an applicant, specifically: _____
- ☐ Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as _____
- ☐ Inserted mandatory headings, specifically: _____
- ☐ Corrected an obvious error in the response, specifically: _____
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: _____
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted **ending** stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____
- ☒ Other: Seq 6 - corrected amino acid nos.

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95

RAW SEQUENCE LISTING

DATE: 05/01/2001

PATENT APPLICATION: US/09/423,545B

TIME: 17:06:42

Input Set : A:\Pto.amc

Output Set: N:\CRF3\05012001\I423545B.raw

PS

3 <110> APPLICANT: Kenji SHIBATA
 4 Motoo YAMASAKI
 5 Tetsuo YOSHIDA
 6 Tamio MIZUKAMI
 7 Akeo SHINKAI
 8 Hideharu ANAZAWA
 10 <120> TITLE OF INVENTION: Peptides having a cyclic structure and restoring the
 11 activities of P53 protein to mutant P53 protein
 13 <130> FILE REFERENCE: 2139.15
 15 <140> CURRENT APPLICATION NUMBER: 09/423,545B
 16 <141> CURRENT FILING DATE: 1999-11-12
 18 <150> PRIOR APPLICATION NUMBER: PCT/JP98/02148
 19 <151> PRIOR FILING DATE: 1998-05-15
 21 <150> PRIOR APPLICATION NUMBER: JP97/126113
 22 <151> PRIOR FILING DATE: 1997-05-15
 24 <160> NUMBER OF SEQ ID NOS: 32
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 31 <220> FEATURE:
 32 <223> OTHER INFORMATION: Synthetic peptide
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 36 1 5 10 15
 39 <210> SEQ ID NO: 2
 40 <211> LENGTH: 13
 41 <212> TYPE: PRT
 42 <213> ORGANISM: Artificial Sequence
 44 <220> FEATURE:
 45 <223> OTHER INFORMATION: Synthetic peptide
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 49 1 5 10
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 53 <211> LENGTH: 11
 54 <212> TYPE: PRT
 55 <213> ORGANISM: Artificial Sequence
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 62 1 5 10
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 67 <212> TYPE: PRT
 68 <213> ORGANISM: Artificial Sequence

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Input Set : A:\Pto.amc

Output Set: N:\CRF3\05012001\I423545B.raw

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 75 <223> OTHER INFORMATION: Synthetic peptide
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 79 1 5 10 15
 80 Cys
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 85 <212> TYPE: PRT
 86 <213> ORGANISM: Artificial Sequence
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 90 <222> LOCATION: (1)..(15)
 91 <223> OTHER INFORMATION: BINDING type is -CONH2-.
 93 <220> FEATURE:
 94 <223> OTHER INFORMATION: Synthetic peptide
 96 <400> SEQUENCE: 5
 97 Leu Lys Ser Lys Lys Gly Gln Ser Thr Ser Arg His Lys Lys Leu
 98 1 5 10 15
 101 <210> SEQ ID NO: 6
 102 <211> LENGTH: 17
 103 <212> TYPE: PRT
 104 <213> ORGANISM: Artificial Sequence
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 107 <221> NAME/KEY: DISULFID
 108 <222> LOCATION: (1)..(17)
 110 <220> FEATURE:
 111 <221> NAME/KEY: SITE
 112 <222> LOCATION: (17)
 113 <223> OTHER INFORMATION: Xaa represents L-Cysteine amide
 115 <220> FEATURE:
 116 <223> OTHER INFORMATION: Synthetic peptide
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 120 1 5 10 15
 122 Xaa
 125 <210> SEQ ID NO: 7
 126 <211> LENGTH: 17
 127 <212> TYPE: PRT
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 131 <221> NAME/KEY: DISULFID
 132 <222> LOCATION: (1)..(17)
 134 <220> FEATURE:
 135 <221> NAME/KEY: SITE
 136 <222> LOCATION: (1)

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Input Set : A:\Pto.amc

Output Set: N:\CRF3\05012001\I423545B.raw

137 <223> OTHER INFORMATION: Xaa represents N-Acetyl-L-cysteine
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 141 <222> LOCATION: (17)
 142 <223> OTHER INFORMATION: Xaa represents L-Cysteine amide
 144 <220> FEATURE:
 145 <223> OTHER INFORMATION: Synthetic peptide
 147 <400> SEQUENCE: 7
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 149 1 5 10 15
 W--> 150 Xaa
 152 <210> SEQ ID NO: 8
 153 <211> LENGTH: 32
 154 <212> TYPE: DNA
 155 <213> ORGANISM: Artificial Sequence
 157 <220> FEATURE:
 158 <223> OTHER INFORMATION: Other nucleic acid Synthetic DNA
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 161 ctagacagcc agactgcctt cgggtcact gc 32
 163 <210> SEQ ID NO: 9
 164 <211> LENGTH: 32
 165 <212> TYPE: DNA
 166 <213> ORGANISM: Artificial Sequence
 168 <220> FEATURE:
 169 <223> OTHER INFORMATION: Other nucleic acid Synthetic DNA
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 172 catggcagtg acccggaagg cagtctggct gt 32
 175 <210> SEQ ID NO: 10
 176 <211> LENGTH: 26
 177 <212> TYPE: DNA
 178 <213> ORGANISM: Artificial Sequence
 180 <220> FEATURE:
 181 <223> OTHER INFORMATION: Other nucleic acid Synthetic DNA
 183 <400> SEQUENCE: 10
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 186 <210> SEQ ID NO: 11
 187 <211> LENGTH: 26
 188 <212> TYPE: DNA
 189 <213> ORGANISM: Artificial Sequence
 191 <220> FEATURE:
 192 <223> OTHER INFORMATION: Other nucleic acid Synthetic DNA
 194 <400> SEQUENCE: 11
 195 tcgacaggca tgtctaggca tgtctc 26
 197 <210> SEQ ID NO: 12
 198 <211> LENGTH: 22
 199 <212> TYPE: DNA
 200 <213> ORGANISM: Artificial Sequence
 202 <220> FEATURE:
 203 <223> OTHER INFORMATION: Other nucleic acid Synthetic DNA

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Input Set : A:\pto.amc

Output Set: N:\CRF3\05012001\I423545B.raw

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211 <213> ORGANISM: Artificial Sequence
213 <220> FEATURE:
214 <223> OTHER INFORMATION: Other nucleic acid Synthetic DNA
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217 cggtagcccc gggc                        14
219 <210> SEQ ID NO: 14
220 <211> LENGTH: 32
221 <212> TYPE: DNA
222 <213> ORGANISM: Artificial Sequence
224 <220> FEATURE:
225 <223> OTHER INFORMATION: Other nucleic acid Synthetic DNA
227 <400> SEQUENCE: 14
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231 <211> LENGTH: 32
232 <212> TYPE: DNA
233 <213> ORGANISM: Artificial Sequence
235 <220> FEATURE:
236 <223> OTHER INFORMATION: Other nucleic acid Synthetic DNA
238 <400> SEQUENCE: 15
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241 <210> SEQ ID NO: 16
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243 <212> TYPE: PRT
244 <213> ORGANISM: Artificial Sequence
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247 <221> NAME/KEY: DISULFID
248 <222> LOCATION: (1)..(17)
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251 <221> NAME/KEY: SITE
252 <222> LOCATION: (18)
253 <223> OTHER INFORMATION: Xaa represents 12-Dodecanamide
255 <220> FEATURE:
256 <223> OTHER INFORMATION: Synthetic peptide
258 <400> SEQUENCE: 16
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260 1          5          10          15
W--> 261 Cys Xaa
264 <210> SEQ ID NO: 17
265 <211> LENGTH: 17
266 <212> TYPE: PRT
267 <213> ORGANISM: Artificial Sequence
269 <220> FEATURE:
270 <221> NAME/KEY: DISULFID

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RAW SEQUENCE LISTING

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PATENT APPLICATION: US/09/423,545B

TIME: 17:06:42

Input Set : A:\Pto.amc

Output Set: N:\CRF3\05012001\I423545B.raw

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275 <222> LOCATION: (17)
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278 <220> FEATURE:
279 <223> OTHER INFORMATION: Synthetic peptide
281 <400> SEQUENCE: 17
282 Cys Leu Lys Ser Lys Lys Gly Gln Ser Thr Ser Arg His Lys Lys Leu
283   1               5               10               15
W--> 284 Xaa
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287 <211> LENGTH: 17
288 <212> TYPE: PRT
289 <213> ORGANISM: Artificial Sequence
291 <220> FEATURE:
292 <221> NAME/KEY: DISULFID
293 <222> LOCATION: (1)..(17)
295 <220> FEATURE:
296 <221> NAME/KEY: SITE
297 <222> LOCATION: (17)
298 <223> OTHER INFORMATION: Xaa represents N-Octadecyl-L-cysteine amide
300 <220> FEATURE:
301 <223> OTHER INFORMATION: Synthetic peptide
303 <400> SEQUENCE: 18
304 Cys Leu Lys Ser Lys Lys Gly Gln Ser Thr Ser Arg His Lys Lys Leu
305   1               5               10               15
W--> 306 Xaa
309 <210> SEQ ID NO: 19
310 <211> LENGTH: 17
311 <212> TYPE: PRT
312 <213> ORGANISM: Artificial Sequence
314 <220> FEATURE:
315 <221> NAME/KEY: DISULFID
316 <222> LOCATION: (1)..(17)
318 <220> FEATURE:
319 <221> NAME/KEY: SITE
320 <222> LOCATION: (14)
321 <223> OTHER INFORMATION: Xaa represents NYA-Acetyl-L-lysine
323 <220> FEATURE:
324 <223> OTHER INFORMATION: Synthetic peptide
326 <400> SEQUENCE: 19
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329 Cys
332 <210> SEQ ID NO: 20
333 <211> LENGTH: 17
334 <212> TYPE: PRT
335 <213> ORGANISM: Artificial Sequence

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RAW SEQUENCE LISTING

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Input Set : A:\Pto.amc

Output Set: N:\CRF3\05012001\I423545B.raw

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209 <211> LENGTH: 14
210 <212> TYPE: DNA
211 <213> ORGANISM: Artificial Sequence
213 <220> FEATURE:
214 <223> OTHER INFORMATION: Other nucleic acid Synthetic DNA
216 <400> SEQUENCE: 13
217 cggtaccccc gggc                14
219 <210> SEQ ID NO: 14
220 <211> LENGTH: 32
221 <212> TYPE: DNA
222 <213> ORGANISM: Artificial Sequence
224 <220> FEATURE:
225 <223> OTHER INFORMATION: Other nucleic acid Synthetic DNA
227 <400> SEQUENCE: 14
228 tcgagggact tgcctggact tgcctgtoga cg        32
230 <210> SEQ ID NO: 15
231 <211> LENGTH: 32
232 <212> TYPE: DNA
233 <213> ORGANISM: Artificial Sequence
235 <220> FEATURE:
236 <223> OTHER INFORMATION: Other nucleic acid Synthetic DNA
238 <400> SEQUENCE: 15
239 gtaccgtoga caggcaagtc caggcaagtc cc        32
241 <210> SEQ ID NO: 16
242 <211> LENGTH: 18
243 <212> TYPE: PRT
244 <213> ORGANISM: Artificial Sequence
246 <220> FEATURE:
247 <221> NAME/KEY: DISULFID
248 <222> LOCATION: (1)..(17)
250 <220> FEATURE:
251 <221> NAME/KEY: SITE
252 <222> LOCATION: (18)
253 <223> OTHER INFORMATION: Xaa represents 12-Dodecanamide
255 <220> FEATURE:
256 <223> OTHER INFORMATION: Synthetic peptide
258 <400> SEQUENCE: 16
259 Cys Leu Lys Ser Lys Lys Gly Gln Ser Thr Ser Arg His Lys Lys Leu
260 1          5          10          15
W--> 261 Cys Xaa
264 <210> SEQ ID NO: 17
265 <211> LENGTH: 17
266 <212> TYPE: PRT
267 <213> ORGANISM: Artificial Sequence
269 <220> FEATURE:
270 <221> NAME/KEY: DISULFID

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RAW SEQUENCE LISTING

DATE: 05/01/2001

PATENT APPLICATION: US/09/423,545B

TIME: 17:06:42

Input Set : A:\Pto.amc

Output Set: N:\CRF3\05012001\I423545B.raw

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271 <222> LOCATION: (1)..(17)
273 <220> FEATURE:
274 <221> NAME/KEY: SITE
275 <222> LOCATION: (17)
276 <223> OTHER INFORMATION: Xaa represents N-Dodecyl-L-cysteine amide
278 <220> FEATURE:
279 <223> OTHER INFORMATION: Synthetic peptide
281 <400> SEQUENCE: 17
282 Cys Leu Lys Ser Lys Lys Gly Gln Ser Thr Ser Arg His Lys Lys Leu
283 1 5 10 15
W--> 284 Xaa
286 <210> SEQ ID NO: 18
287 <211> LENGTH: 17
288 <212> TYPE: PRT
289 <213> ORGANISM: Artificial Sequence
291 <220> FEATURE:
292 <221> NAME/KEY: DISULFID
293 <222> LOCATION: (1)..(17)
295 <220> FEATURE:
296 <221> NAME/KEY: SITE
297 <222> LOCATION: (17)
298 <223> OTHER INFORMATION: Xaa represents N-Octadecyl-L-cysteine amide
300 <220> FEATURE:
301 <223> OTHER INFORMATION: Synthetic peptide
303 <400> SEQUENCE: 18
304 Cys Leu Lys Ser Lys Lys Gly Gln Ser Thr Ser Arg His Lys Lys Leu
305 1 5 10 15
W--> 306 Xaa
309 <210> SEQ ID NO: 19
310 <211> LENGTH: 17
311 <212> TYPE: PRT
312 <213> ORGANISM: Artificial Sequence
314 <220> FEATURE:
315 <221> NAME/KEY: DISULFID
316 <222> LOCATION: (1)..(17)
318 <220> FEATURE:
319 <221> NAME/KEY: SITE
320 <222> LOCATION: (14)
321 <223> OTHER INFORMATION: Xaa represents NYA-Acetyl-L-lysine
323 <220> FEATURE:
324 <223> OTHER INFORMATION: Synthetic peptide
326 <400> SEQUENCE: 19
W--> 327 Cys Leu Lys Ser Lys Lys Gly Gln Ser Thr Ser Arg His Xaa Lys Leu
328 1 5 10 15
329 Cys
332 <210> SEQ ID NO: 20
333 <211> LENGTH: 17
334 <212> TYPE: PRT
335 <213> ORGANISM: Artificial Sequence

```

Please Note:

Use f n and/ r Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n r Xaa.

VERIFICATION SUMMARY

DATE: 05/01/2001

PATENT APPLICATION: US/09/423,545B

TIME: 17:06:43

Input Set : A:\Pto.amc

Output Set: N:\CRF3\05012001\I423545B.raw

L:122 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:148 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:150 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:261 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:284 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:306 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18
L:327 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19
L:356 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20
L:358 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20
L:396 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22
L:419 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23
L:441 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24
L:486 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26
L:513 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27
L:515 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27
L:535 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28
L:556 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29
L:578 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30
L:587 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:31
L:601 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31
L:623 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32